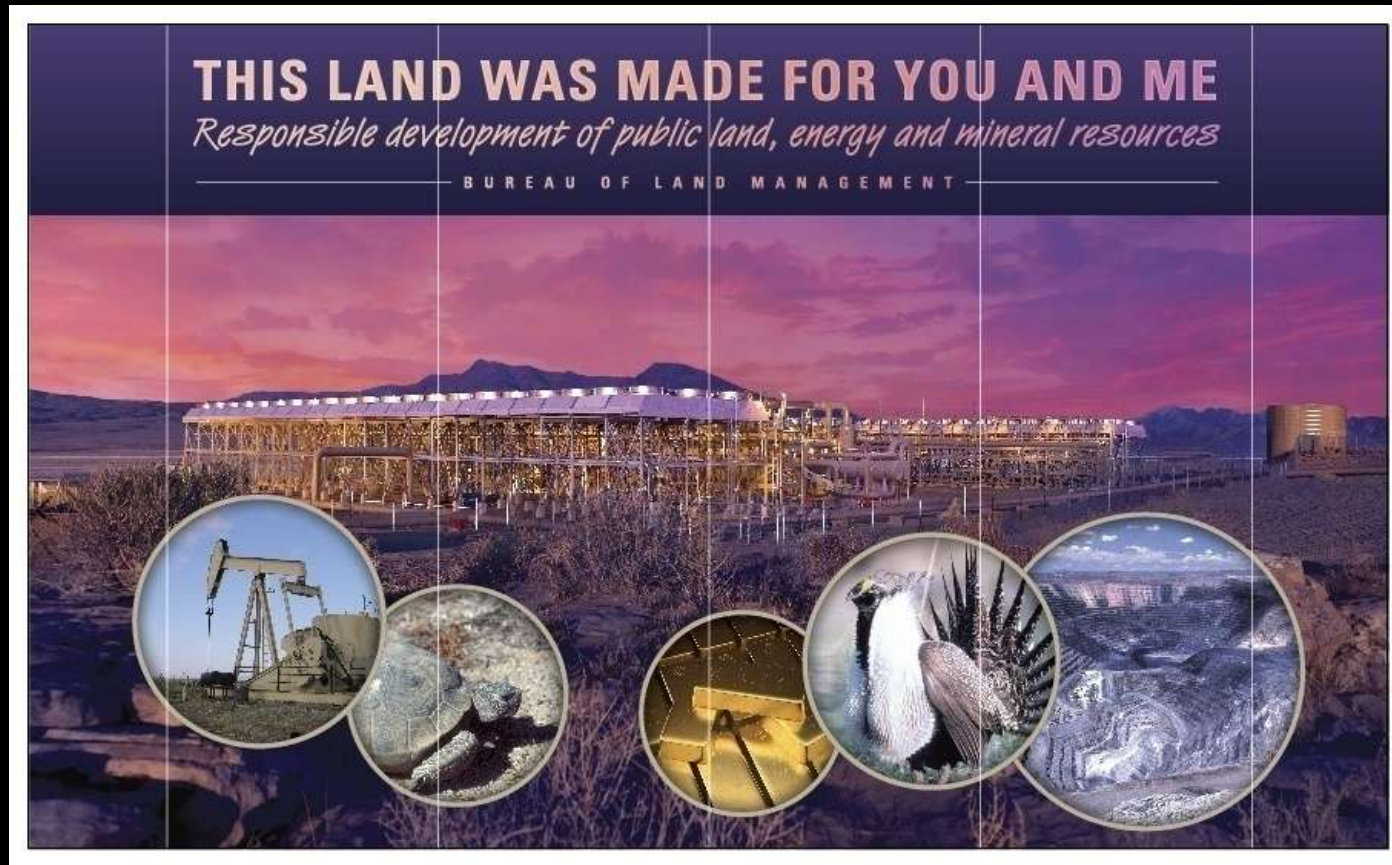


BLM NEVADA MINERALS OVERVIEW – 2009

For TRI-RAC MTG IN ELKO ON NOV 19, 2009



GARY JOHNSON
DEPUTY STATE DIRECTOR – MINERALS
775/861-6585 or gjohnson@blm.gov



✦ ***SOLID MINERALS***

✦ ***LOCATABLES***

✦ ***LEASABLES***

✦ ***SALEABLES***

✦ ***AML & HAZ MAT***



✦ ***FLUID MINERALS***

✦ ***GEO THERMAL***

✦ ***OIL & GAS***

SALEABLE MINERALS



LEASEABLE MINERALS



ABANDONED MINE LANDS (AML)

HAZARDOUS MATERIALS (HAZ MAT)



MONARCH MILL RECLAMATION



BEFORE



AFTER

LOCATEABLE MINERALS



26 TYPES OF LOCATABLE MINERALS MINED ON PUBLIC LANDS IN NEVADA

▣ **GOLD**

▣ **SILVER**

▣ **COPPER**

▣ **ALUMINUM**

▣ **ANTIMONY**

▣ **BARITE**

▣ **CALCIUM**

▣ **CLAY**

▣ **BENTONITE
(CLAY)**

▣ **DIATOMITE**

▣ **FELDSPAR**

▣ **GEMSTONE**

▣ **GYPSUM**

▣ **LIMESTONE**

▣ **LITHIUM**

▣ **DOLOMITE**

▣ **MOLYBDENUM**

(Continue)

▣ ***PERLITE***

▣ ***RARE EARTHS***

▣ ***SILICON***

▣ ***SODIUM***

▣ ***STONE***

▣ ***TALC***

▣ ***TUNGSTEM***

▣ ***URANIUM***

▣ ***ZEOLITES***

MINERAL PRICES

11/13/09

🍷 **GOLD**

🍷 **\$1,116/OZ**

🍷 **SILVER**

🍷 **\$17/OZ**

🍷 **COPPER**

🍷 **\$2.96/LB**



2008 PRODUCTION

🏠 **GOLD**

5,698,000 OZ

🏠 **SILVER**

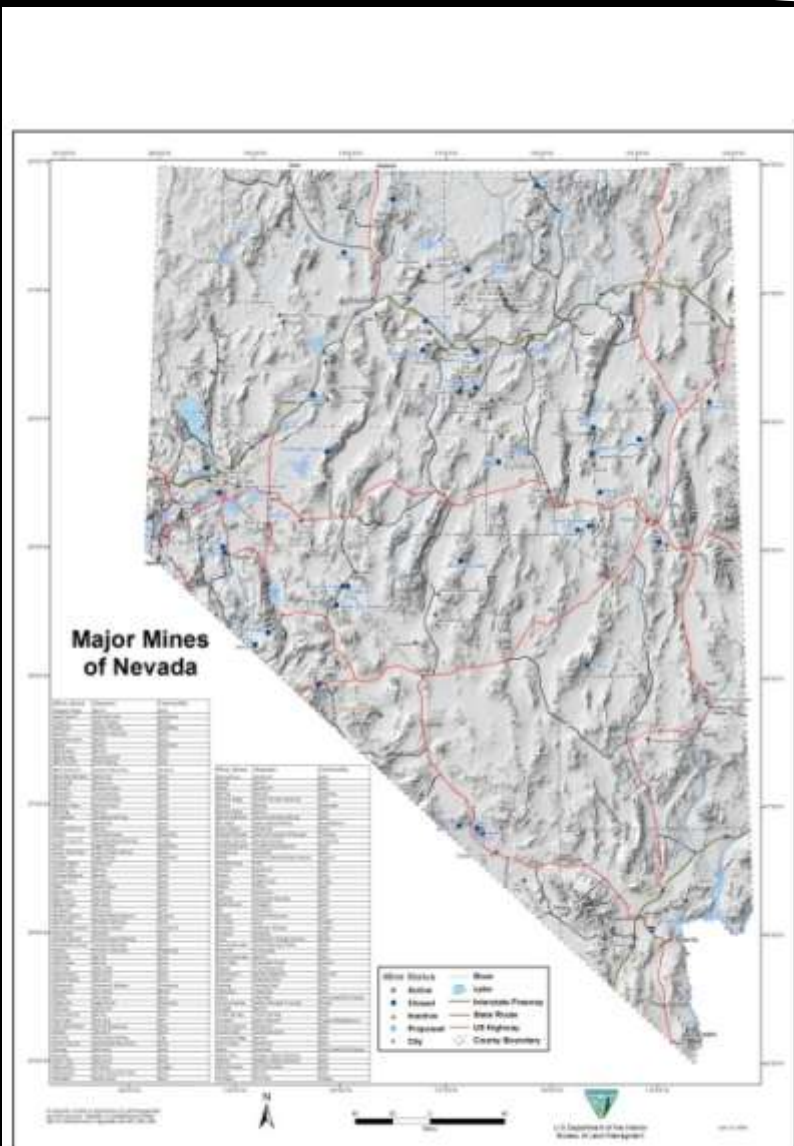
7,965,000 OZ

🏠 **COPPER**

175,538,000 LB



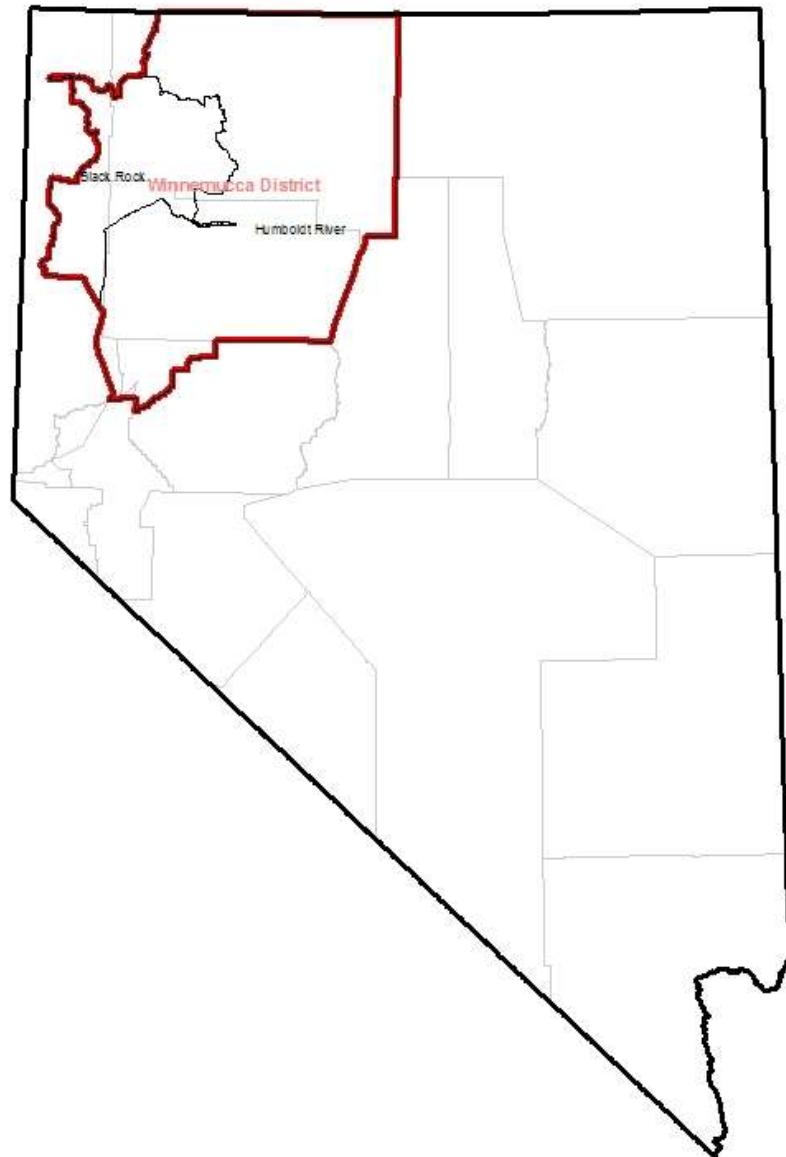
2008 UPDATED MINE MAP



MAJOR MINES IN NEVADA



WINNEMUCCA DISTRICT





 ***ASHDOWN MINE***

 ***MARIGOLD MINE***

 ***TURQUOISE RIDGE JOINT
VENTURE***

 ***TWIN CREEKS MINE***

 ***COEUR ROCHESTER MINE***

 ***FLORIDA CANYON MINE***

 ***HYCROFT MINE***

BATTLE MOUNTAIN DISTRICT





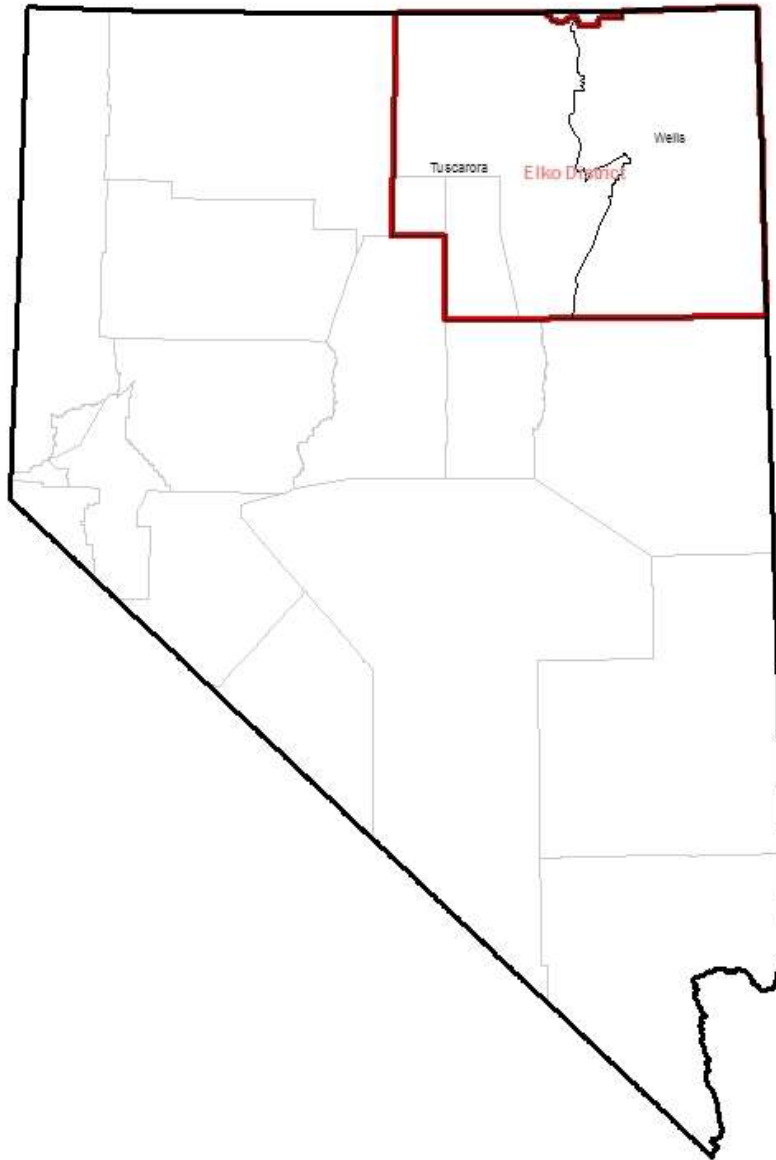
 ***RUBY HILL MINE***

 ***CORTEZ MINES (multiple mines)***

 ***PHOENIX PROJECT***

 ***SMOKY VALLEY COMMON OPERATIONS***

ELKO DISTRICT





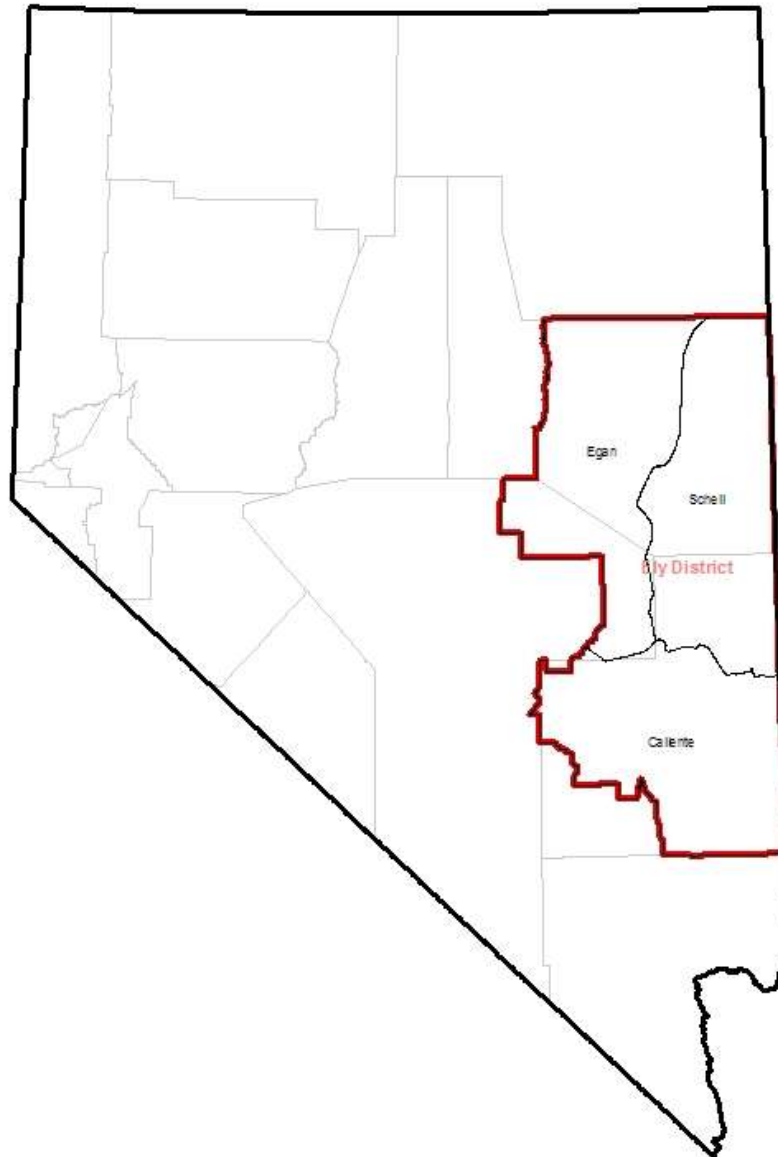
 **BETZE-POST MINE**

 **EASTERN NEVADA
OPERATION – (INCLUDES
CARLIN, GOLD QUARRY &
LEEVILLE MINES)**

 **MEIKLE MINE**

 **MIDAS MINE**

ELY DISTRICT



ELY DISTRICT

 ***BALD MOUNTAIN MINE***

 ***ROBINSON MINE***

NORTH VS. SOUTH



 ***LARGE HEAP
LEACH GOLD
MINES***

 ***VALIDITY
ISSUES***





United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Las Vegas Field Office
4701 N. Torrey Pines Drive
Las Vegas, Nevada 89130-2301



In Reply Refer to:
N-81369
3809 (NV-053)

CERTIFIED MAIL NO.
RETURN RECEIPT REQUESTED

Canyon Resources Corporation
Attn: Joy Moseley
14142 Denver West Parkway, Suite 250
Golden, CO 80401-3119

Dear Ms. Moseley:

Mining notice, N-81369, to conduct exploratory work in sections 2, T. 13 S., R. 47 E., M.D.M., Nye County, Nevada was received complete in this office on April 19, 2006. The proposed work will disturb around 1.7 acres of public lands managed by the Bureau of Land Management (BLM). Disturbance will include the construction of new access routes, the construction of 20 drill pads and the drilling of 20 rotary drill holes.

This office has reviewed this notice and has determined that the document contains the required information as prescribed by regulation for surface disturbing activities. In addition, a reclamation bond has been posted with and accepted by the BLM, Nevada State Office. You may proceed with the proposed operations listed in your notice, according to Federal regulations at 43 CFR 3809 and 43 CFR 3715. Please notify this office at least five working days prior to the initiation of operations and provide us with an estimate of your operating period.

This acknowledgment does not relieve the operator of the following obligations:

- Prevention of unnecessary or undue degradation of public lands and resources.
- Reclamation of lands disturbed by the proposed operations.
- Compliance with all applicable Federal, State and local laws and regulations. Obtain all appropriate Federal, State and local authorizations and permits.

 **NOTICES
(5 ACRES
OR LESS)**

**Round Mountain
2006 Expansion
Plan of Operations Amendment
N-72662**



Submitted to:
**United States Department of the Interior
Bureau of Land Management**

Prepared by:



**Round Mountain Gold
Corporation**

**Round Mountain Gold Corporation
P.O. Box 480
#1 Smoky Valley Mine Road
Round Mountain, NV 89045**

and



SRK Consulting
Engineers and Scientists

**1250 Lamolle Hwy, Suite 520
Elko, NV 89801**

June 2006

 **PLAN OF
OPERATIONS**

INSPECTIONS



BONDING



➡ **OVER**

\$1,150,000,000

***HELD IN BONDS FOR
FINAL
RECLAMATION***

RECLAMATION COST ESTIMATES



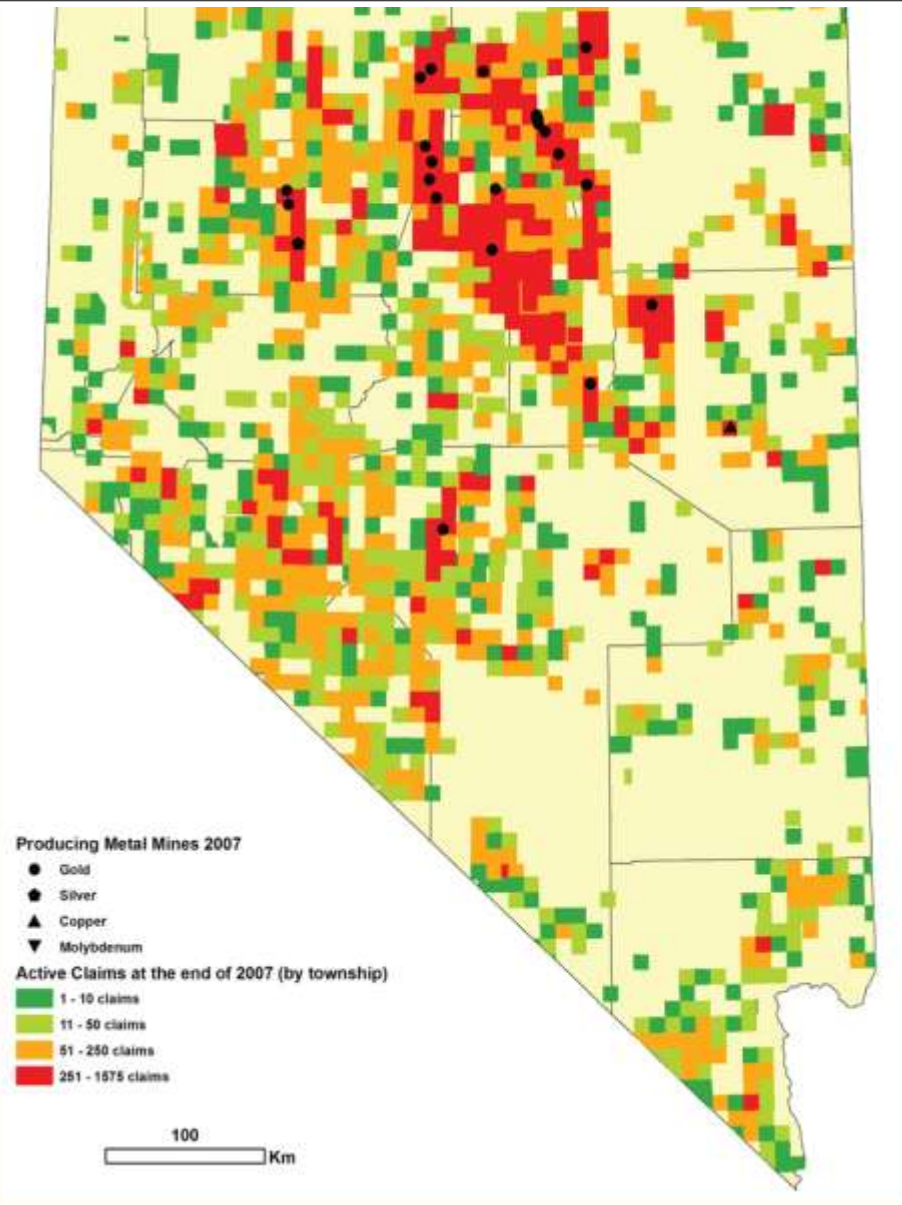
RCE COMPUTER MODELS

- **NEVADA
COMPUTER MODEL
(SRCE)**
- **NATIONAL
COMPUTER MODEL
(SHERPA)**

ADJUDICATION

Active Claims 2007

(by township)





ONE MILLION MINING CLAIMS

BUREAU OF LAND MANAGEMENT • NEVADA



WHAT DOES THE FUTURE HOLD?

SUSTAINABLE DEVELOPMENT



BLM
MINING INDUSTRY
LOCAL COMMUNITIES
OTHER PARTNERS



▣ **FLUID MINERALS**

▣ **GEO THERMAL**

▣ **OIL & GAS**



▣ **SOLID MINERALS**

▣ **LOCATABLES**

▣ **LEASABLES**

▣ **SALEABLES**

▣ **AML & HAZ MAT**

OIL & GAS

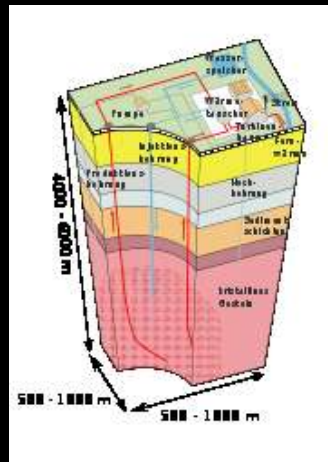
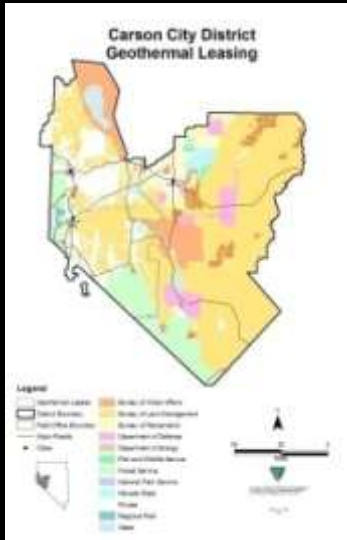
1954

**FIRST PRODUCING WELL
IN NEVADA – SHELL #1**

2008

DRY HOLE

GEO THERMAL



EXPLORATION



PRODUCTION





POWER PLANT & FINAL RECLAMATION

Geothermal Leasing November 2009



Legend

-  County Boundary
-  Geothermal Leases




This document is issued by the Bureau of Land Management as a public service. It is not intended to constitute an offer of any product or service, nor does it constitute a contract. The Bureau of Land Management is not responsible for any errors or omissions in this document.

November 2, 2009
JEL

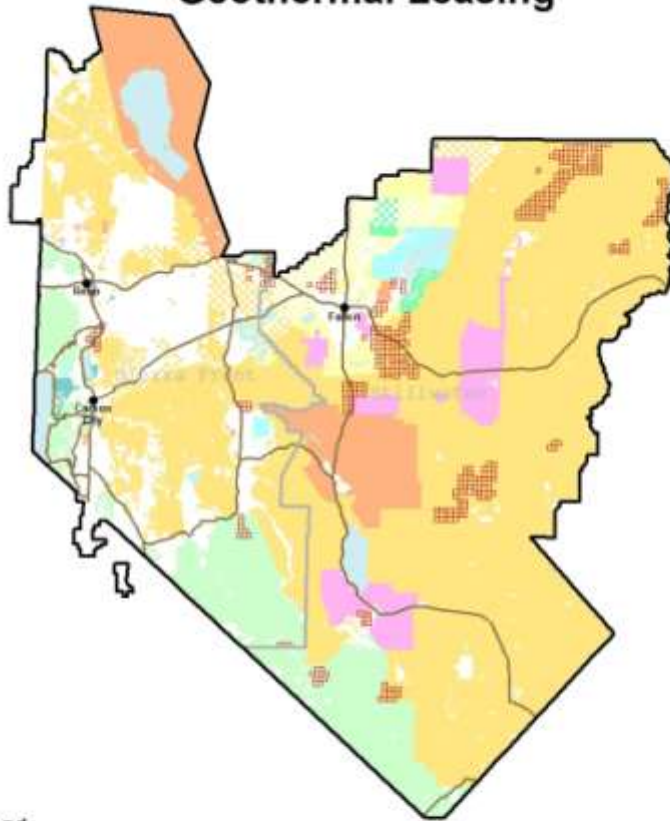


 **468 LEASES**

 **940,361 ACRES
LEASED**

 **41 PRODUCING
LEASES**

Carson City District Geothermal Leasing

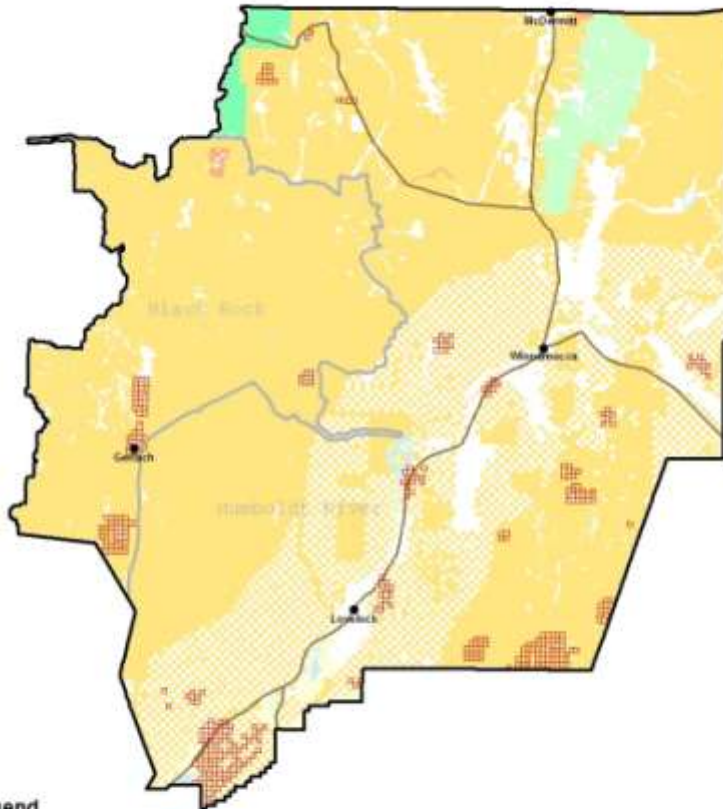


 **163 LEASES**

 **333,868 ACRES
LEASED**

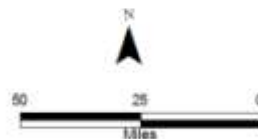
 **14 PRODUCING
LEASES**

Winnemucca District Geothermal Leasing



Legend

- Geothermal Leases
- District Boundary
- Field Office Boundary
- Major Roads
- Cities
- Bureau of Indian Affairs
- Bureau of Land Management
- Bureau of Reclamation
- Department of Defense
- Department of Energy
- Fish and Wildlife Service
- Forest Service
- National Park Service
- Nevada State
- Private
- Regional Park
- Water



Winnemucca District Geothermal Leasing
Data provided by the Nevada Department of Energy
in cooperation with the Nevada Bureau of Geology and Mineral Research

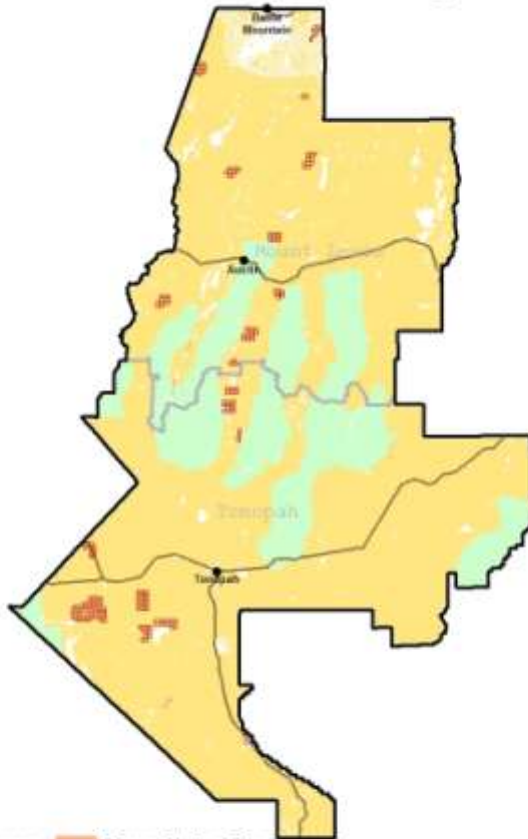
March 2004

 **175 LEASES**

 **334,782 ACRES
LEASED**

 **12 PRODUCING
LEASES**

Battle Mountain District Geothermal Leasing



Legend

- | | |
|-----------------------|---------------------------|
| Geothermal Leases | Bureau of Indian Affairs |
| District Boundary | Bureau of Land Management |
| Field Office Boundary | Bureau of Reclamation |
| Major Roads | Department of Defense |
| Cities | Department of Energy |
| | Fish and Wildlife Service |
| | Forest Service |
| | National Park Service |
| | Nevada State |
| | Private |
| | Regional Park |
| | Water |



Geothermal Leases are subject to land ownership and other factors. Leases are subject to change and are not guaranteed.

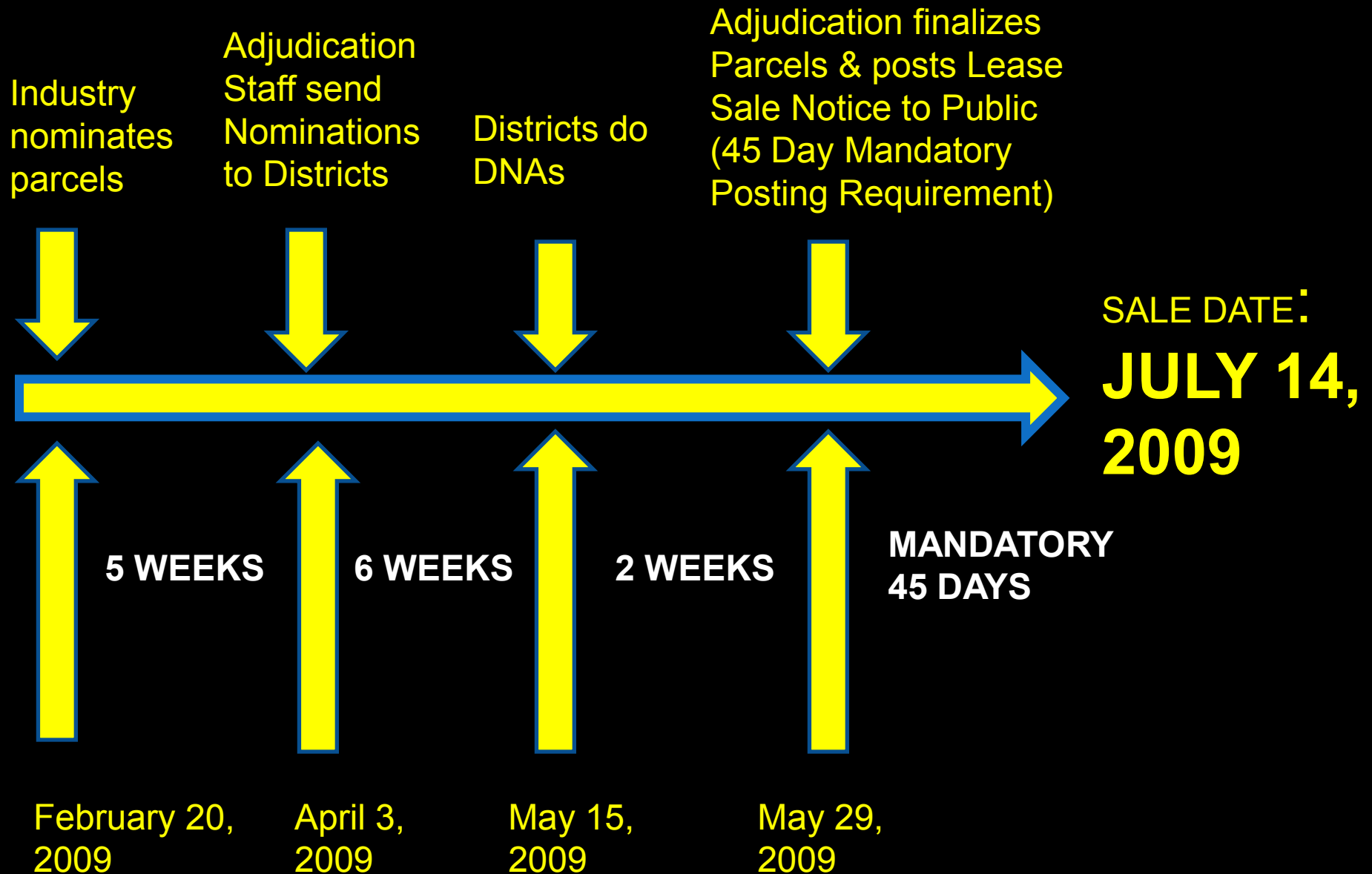
March 2014

102 LEASES

**229,295 ACRES
LEASED**

**14 PRODUCING
LEASES**

THE LEASING PROCESS



BUREAU OF LAND MANAGEMENT
NevadaBLM Nevada News
NEVADA STATE OFFICE, NO. 08-07
FOR RELEASE: August 5, 2008
CONTACT: Jolynn Worley, 775-861-0513**BLM Geothermal Sale Nets \$28 Million**

Reno, Nev. — A geothermal lease sale held by the Bureau of Land Management today brought in a record-breaking \$28.2 million. The state will receive about \$14 million and the counties of Churchill, Elko, Esmeralda, Humboldt, Lander, Mineral, Nevada and Persimmon, where the leases are located, will receive more than \$7 million, which will be distributed by bid amount and acre.

The high bonus bid per acre was for a 2,707 acre parcel in Churchill County at \$1,000 per acre by ENEL Geothermal LLC, Reno, Nev. The highest bid paid for a parcel was \$1,200,000 by Island Creek Trust, LLC, Denver, Colo. Three parcels in Churchill County, consolidated and offered as a block, sold for \$565 per acre, bringing in \$6,934,000 from Magnum Energy US Corp, Reno, Nev.

Leases are for 10 years. In addition to the bonus bids, rental costs are \$2 per acre for the first year, plus a one-time \$140 per lease fee. The annual rental fee increases over the 10 year lease to \$5 per acre.

According to regulations and a competitive leasing process implemented under the Energy Policy Act, proceeds from the sale of geothermal leases are distributed 30 percent to the state, 25 percent to the county and 25 percent to the Federal government.

Today's sale is the second Nevada geothermal sale since passage of the Energy Policy Act of 2005. The last geothermal sale in Aug. 2007, offered 122,850 acres in 43 parcels which sold for nearly \$11.7 million—\$9.5 million of which went to the state and counties where the parcels are located. Last year's high bid per acre was \$590.

A complete list of the Nevada sale winning bids is available at www.blm.gov/ne/enr.html.

-BLM-

NEXT GEOTHERMAL LEASE SALE: May 11, 2010

**\$28,000,000
GEOTHERMAL
LEASE SALE
(AUG 08)**

**\$9,000,000
GEOTHERMAL
LEASE SALE
(JUL 09)**

**If the
Exploration
proves the
resource, then
the Company
will build a
Power Plant**



But First:
NEPA
GDPs
OPERATIONS PLAN
UTILIZATION
PLANS
COMMERCIAL USE
PERMIT

...



CURRENTLY WORKING ON 140 PERMITS

**NOI – NOTICE OF INTENT
FOR EXPLORATION
(Differs from Oil and Gas)**

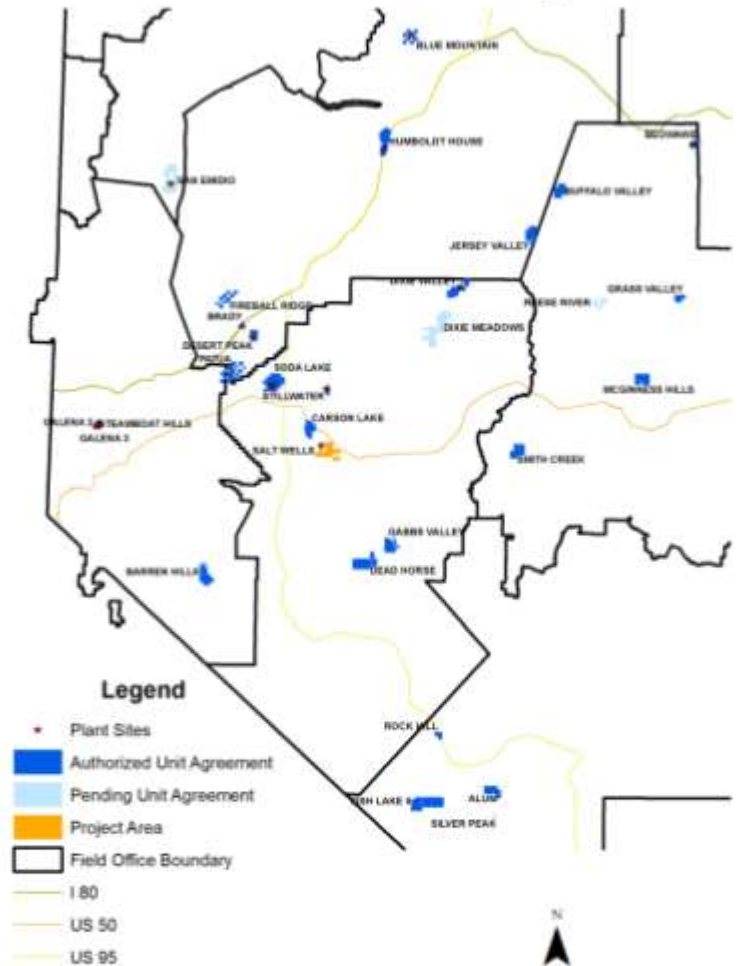
**GDP- GEOTHERMAL
DRILLING
PERMIT**



Project Name	Project Type	BLM District Office
Alum	Exploration Unit	Battle Mountain
Barren Hills	Exploration Unit	Carson City
Beowawe	Existing Power Plant	Elko
Blue Mountain	Existing Power Plant	Winnemucca
Brady Hot Springs	Existing Power Plant	Winnemucca
Buffalo Valley	Wells/T-Line/Power Plant	Battle Mountain
Coyote Canyon	Exploration w/out Unit	Carson City
Dead Horse	Exploration Unit	Carson City
Desert Peak 1 & 2	Existing Power Plant	Winnemucca
Desert Quenn	Exploration w/out Unit	Winnemucca
Devil's Canyon	Development Project	Battle Mountain
Dixie Meadows	Exploration w/out Unit	Carson City
Dixie Meadows-Comstock	Exploration Unit	Winnemucca
Dixie Valley	Existing Power Plant	Carson City
Fireball Ridge	Exploration w/out Unit	Winnemucca
Fish Lake II	Exploration Unit	Battle Mountain
Gabbs Valley	Exploration Unit.	Carson City
Galena 2	Existing Power Plant	Carson City
Galena 3	Existing Power Plant	Carson City

Project Name	Project Type	BLM District Office
Grass Valley	Exploration Unit	Battle Mountain
Humboldt House	Exploration Unit	Winnemucca
Jersey Valley	Wells/T-Line/Power Plant	Battle Mountain
McGinness Hills	Exploration Unit	Battle Mountain
New York Canyon	Exploration w/out Unit	Winnemucca
Panther Canyon	Exploration	Winnemucca
Patua	Exploration Unit	Carson City
Reese River	Wells/T-Line/Power Plant	Battle Mountain
Rock Hill	Exploration Unit	Battle Mountain
Salt Wells	Power Plant On-line April, 2009	Carson City
Salt Wells	Development Project	Carson City
San Emidio (Empire)	Existing Power Plant	Winnemucca
Silver Peak	Exploration Unit	Battle Mountain
Smith Creek	Exploration Unit	Battle Mountain
Soda Lake	Exploration w/out Unit	Carson City
Soda Lake Complex (1 & 2)	Existing Power Plant	Carson City
Steamboat Hills	Existing Power Plant	Carson City
Stillwater	Existing Power Plant	Carson City

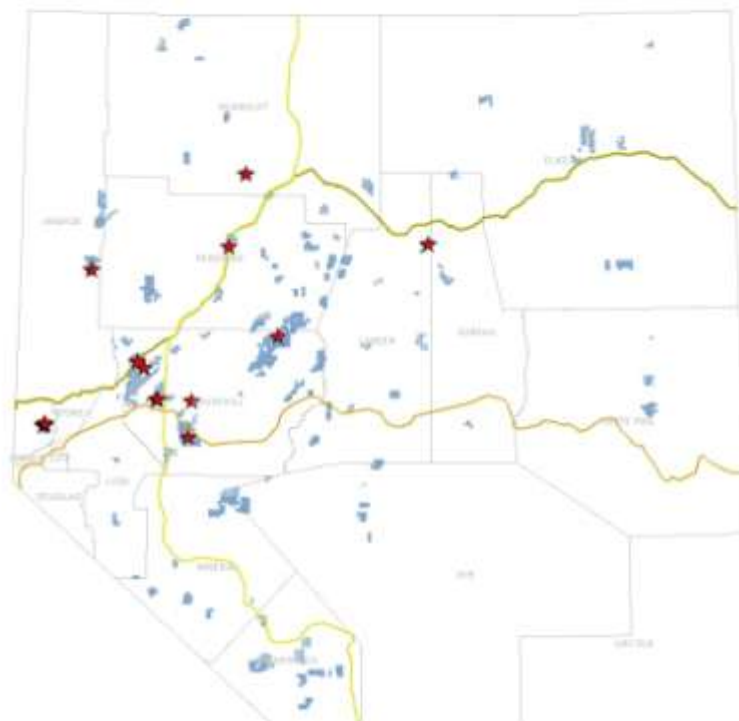
Geothermal Projects



No Warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data.

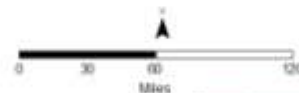


Geothermal Power Plants



Legend

- ★ Power Plants
- Geo Leases
- Counties
- I 80
- US 50
- US 95



Information is based on the Geothermal Energy
Inventory and is for informational purposes only.
It is not intended to be used for commercial
purposes without the consent of the BLM.

November 12, 2008
JEL



***WE
ANTICIPATE
WITHIN
THE NEXT
3 TO 5
YEARS:***



***WHAT DOES THE
FUTURE HOLD?***

■ ***A MINIMUM OF 150 NEW PERMITS WITH
ASSOCIATED NOI's, TRANSMISSION LINES, &
ROW's***

■ ***POTENTIALLY 10 NEW POWER PLANTS***

🚧 **INDUSTRY
INVESTMENT:**
🚧 **> \$1,000,000,000**

🚧 **SIGNIFICANT
INCREASE**

🚧 **DEPENDS ON BLM**



THE DEVELOPERS MUST

■ ***COMPLETE PROJECT FINANCING***

■ ***ORDER EQUIPMENT***

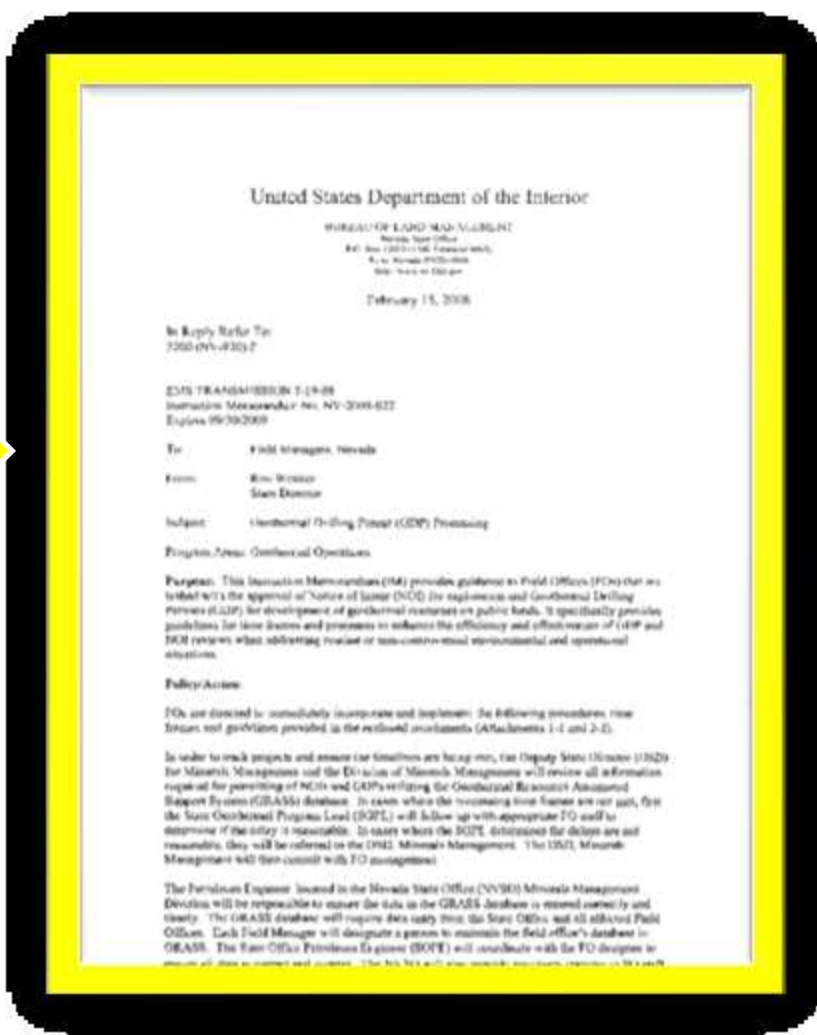
■ ***DRILL & TEST WELLS***

■ ***CONSTRUCT TRANSMISSION LINES***

■ ***BUILD NEW POWER PLANTS!***



BLM's CHALLENGES



WHAT WE HAVE DONE SO FAR...

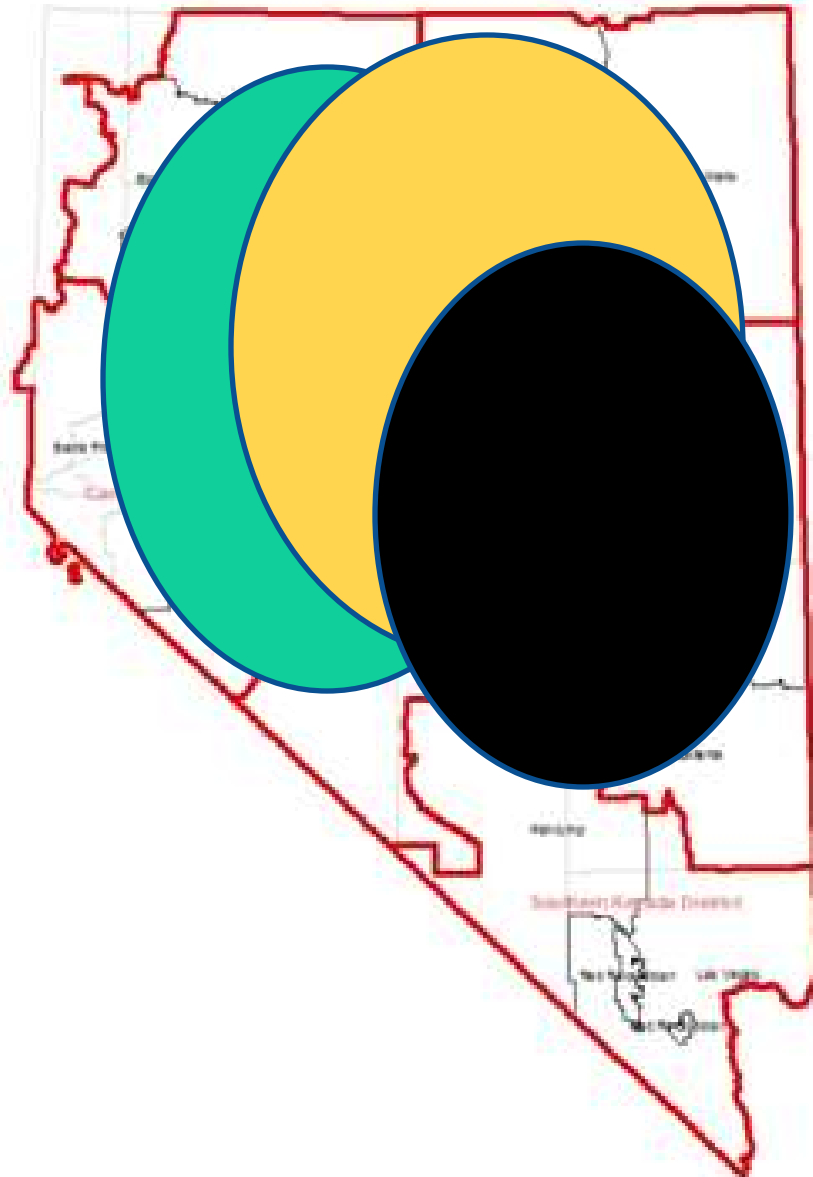
BLM & INDUSTRY'S ULTIMATE GOAL:

GEOHERMAL POWER PLANT



12.5 Megawatts supports approximately 12,500 homes

WHERE THEY'RE AT





THE END

**Any
Questions ?**

